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DATE MAILED: 10/04/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,899	02/24/2004	Kazuo Maezawa	1625-172	1625-172 6754	
30448	7590 10/04/2005		EXAMINER		
AKERMAN	SENTERFITT	JONES, JUDSON			
P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			ART UNIT	PAPER NUMBER	
WESTTALK	i berton, Te 33402 310	,,,	2834		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	No	Amalian 41-1				
		Applicati	on No.	Applicant(s)	'			
, OFF A	adia m. Cumama area	10/786,8	99	MAEZAWA ET AL.				
Uπice A	ction Summary	Examine	•	Art Unit				
		Judson H		2834				
The MAILING Period for Reply	DATE of this communicatio	n appears on the	e cover sheet with the	correspondence address	-			
WHICHEVER IS LC - Extensions of time may be after SIX (6) MONTHS from the second for reply is significant to reply within the second for reply received by the second for reply reply received by the second for reply reply received	ATUTORY PERIOD FOR R NGER, FROM THE MAILIN e available under the provisions of 37 C on the mailing date of this communication pecified above, the maximum statutory is set or extended period for reply will, by Office later than three months after the tment. See 37 CFR 1.704(b).	IG DATE OF THE FR 1.136(a). In no evon. period will apply and w statute, cause the app	HIS COMMUNICATIO ent, however, may a reply be ti ill expire SIX (6) MONTHS fror lication to become ABANDON	N. imely filed not the mailing date of this communic ED (35 U.S.C. § 133).				
Status								
1) Responsive to	communication(s) filed on	_						
2a) ☐ This action is								
3) Since this app	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in acco	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-4</u> is	s/are pending in the applica	tion.						
4a) Of the abo	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s)	_ is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is	6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7)⊠ Claim(s) <u>4</u> is/a	7)⊠ Claim(s) <u>4</u> is/are objected to.							
8) Claim(s)	_ are subject to restriction a	and/or election r	equirement.					
Application Papers					•			
9) ☐ The specificati	on is objected to by the Exa	miner.						
10)⊠ The drawing(s) filed on <u>24 February 2004</u>	is/are: a)⊠ ac	cepted or b) object	ed to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement d	rawing sheet(s) including the c	orrection is requir	ed if the drawing(s) is ol	bjected to. See 37 CFR 1.12	21(d).			
11)☐ The oath or de	eclaration is objected to by the	ne Examiner. No	ote the attached Office	e Action or form PTO-152	2.			
Priority under 35 U.S.0	C. § 119							
	ent is made of a claim for fo	reign priority un	der 35 U.S.C. § 119(a	a)-(d) or (f).				
1	ome * c) None of:	monte have had	un received					
	1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.							
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References C	lited (PTO-892)		4) Interview Summar	v (PTO-413)				
2) D Notice of Draftsperson'	s Patent Drawing Review (PTO-94		Paper No(s)/Mail C	Date				
3) Information Disclosure Paper No(s)/Mail Date	Statement(s) (PTO-1449 or PTO/S	SB/08)	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				
U.S. Patent and Trademark Office			-, -, -, -, -, -, -, -, -, -, -, -, -, -					
PTOL-326 (Rev. 7-05)	Off	ice Action Summa	ry	Part of Paper No./Mail Date 0	92705			

' Application/Control Number: 10/786,899

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitobe 5,111,510. Mitobe discloses a ring-shaped permanent magnet 33 with a supporting member 16 comprising a synthetic resin with the magnet being insert molded as described in column 3 lines 21-29.

In regard to claim 2, see Mitobe figure 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mitobe in view of Yen et al. 5,687,248 and Stuart 5,321,762. Mitobe discloses a voice coil actuator having a ring-shaped permanent magnet and a supporting member of resin but does not disclose using a NdFeB magnet and does not disclose a ring-shaped magnet magnetized in a radial direction. Yen et al. teaches in column 3 lines 29-32 that NdFeB magnets have high magnetic energy density and thus a smaller and lighter magnet can be used to produce the same amount of flux. Stuart

teaches in column 4 lines 5-17 that radially magnetizing an actuator magnet can produce a smaller and lighter actuator. Since Stuart, Yen et al. and Mitobe are from the same field of endeavor and since Mitobe does not disclose the type of magnet used or the direction of magnetization for that magnet, it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a radially magnetized NdFeB magnet in order to reduce the weight of the device so that the device could be used in places where weight was a critical factor.

Allowable Subject Matter

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or teach a magnet with a positive thermal expansion coefficient along a direction of thickness and a negative thermal expansion coefficient in another direction in combination with the other features of claim 4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Judson Jones 9/27/2005

DAPREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800